

SITE: Tender Touch Dry Cleaners
BREAK: 1.11
OTHER: V.1

HRS DOCUMENTATION RECORD COVER SHEET

Name of Site: Tender Touch Dry Cleaners

EPA ID No.:
FLD982136384

Contact Persons

Site Investigation: Craig Feeny 850-245-8980
(name/affiliation)

Documentation Record: - -
(name/affiliation)

Pathways, Components, or Threats Not Scored

The Surface Water Migration Pathway was not evaluated, because chlorinated solvents were not detected at significant concentrations in soil samples collected outside of the facility or in ground water samples collected down-gradient of the PCE source (i.e., the contaminated soil next to the dry cleaning machine)[SI (Tables 2 & 3; Figs. 2 & 3)].

The Soil Exposure and Air Migration Pathways were not scored, because no evidence of significant soil contamination in accessible areas was demonstrated[SI (Table 2 & Fig. 2)] and no residential or student populations were identified on-site.

People ~~of~~ on wells even tho ~~is~~ no Floridan cont.
people so large that even tho likelihood to
release is done on potential.

Huge # Targets -



10765021

HRS DOCUMENTATION RECORD

Name of Site: Tender Touch Dry Cleaners

EPA Region: 4

Date Prepared: 10/15/2004

Street Address of Site: 1515 NW 1st Street

City, County, State: Winter Haven, Polk, FL

General Location in the State:

Topographic Map: The topographic map, upon which the site is located, is Winter Haven, Florida 1959, PR 1980, PI 1983.

Latitude: (North)
28.04

Longitude: (West)
81.73

Ref: The building, in which the dry cleaning machine is located, is the site reference point.

Scores	
Air Pathway	0.00
Ground Water Pathway	100.00
Soil Exposure Pathway	0.00
Surface Water Pathway	0.00
HRS SITE SCORE	50.00

WORKSHEET FOR COMPUTING HRS SITE SCORE

		<u>S</u>	<u>S²</u>
1.	Ground Water Migration Pathway Score (S_{gw}) (from Table 3-1, line 13)	<u>100.00</u>	<u>10,000.00</u>
2a.	Surface Water Overland/Flood Migration Component (from Table 4-1, line 30)	<u>0.00</u>	
2b.	Ground Water to Surface Water Migration Component (from Table 4-25, line 28)	<u>0.00</u>	
2c.	Surface Water Migration Pathway Score (S_{sw}) Enter the larger of lines 2a and 2b as the pathway score.	<u>0.00</u>	<u>0.00</u>
3.	Soil Exposure Pathway Score (S_s) (from Table 5-1, line 22)	<u>0.00</u>	<u>0.00</u>
4.	Air Migration Pathway Score (S_a) (from Table 6-1, line 12)	<u>0.00</u>	<u>0.00</u>
5.	Total of $S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		<u>10,000.00</u>
6.	HRS Site Score Divide the value on line 5 by 4 and take the square root	<u>50.00</u>	

SITE DESCRIPTION

The site is an active dry cleaning facility that initiated dry cleaning operations in 1988.

(INSERT SITE LAYOUT/LOCATION MAP).

REFERENCES

Reference Number	Description of the Reference
	First 57 references correspond with references listed in the 2004 Tender Touch Dry Cleaners Site Inspection Report
58	Addresses.com. 2004. Yellow Pages of Winter Haven (http://ypng.infospace.com/_1_YJOTMS02FN4KOG__info.adrses/ypv3/detail.htm?op=movemap&otmpl=ypv3/map.htm&lat=28.0112&long=-81.7198&lat_p=28.0112&long_p=-81.7198&q=540+Avenue+K+Se&q=winter+haven&q=fl&qz=33880&width_o=360&height_o=270&detail_o=&scale_o=1&matchpass=ADDRESS&kcfg=yplus&yinsp=0&searchtype=all&fromform=qsearch&qhq=Ymca&qn=Ymca&q=540+Avenue+K+Se&q=winter+haven&q=fl&qz=33880&q=028011228&q=long=-081719618&qk=15&recid=2039043005&xmlurl=http%3A%2F%2Fyp110.superpages.com%2Fxml%2Fdetail.phtml%3FT%3Dwint+haven%26N%3DYmca%26PG%3DL%26R%3DN%26SRC%3DInfospace%26S%3DFL%26AL%3D%26LID%3D2039043005%26display%3D1&width=360&height=270&scale=1&detail=&pan=right).

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Aquifer Evaluated: Surficial Aquifer		
Likelihood of Release to an Aquifer:		
1. Observed Release	550	0.00
2. Potential to Release:		
2a. Containment	10	10.00
2b. Net Precipitation	10	3.00
2c. Depth to Aquifer	5	5.00
2d. Travel Time	35	35.00
2e. Potential to Release [(lines 2a(2b + 2c + 2d)]	500	430.00
3. Likelihood of Release (higher of lines 1 and 2e)	550	430.00
Waste Characteristics:		
4. Toxicity/Mobility	(a)	100.00
5. Hazardous Waste Quantity	(a)	10.00
6. Waste Characteristics	100	6.00
Targets:		
7. Nearest Well	(b)	20.00
8. Population:		
8a. Level I Concentrations	(b)	0.00
8b. Level II Concentrations	(b)	0.00
8c. Potential Contamination	(b)	0.00
8d. Population (lines 8a + 8b + 8c)	(b)	0.00
9. Resources	5	5.00
10. Wellhead Protection Area	20	0.00
11. Targets (lines 7 + 8d + 9 + 10)	(b)	25.00
Ground Water Migration Score for an Aquifer:		
12. Aquifer Score [(lines 3 x 6 x 11)/82,500] ^c	100	0.78
Ground Water Migration Pathway Score:		
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated) ^c	100	100.00

^a Maximum value applies to waste characteristics category^b Maximum value not applicable^c Do not round to nearest integer

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Aquifer Evaluated: Floridan aquifer system		
Likelihood of Release to an Aquifer:		
1. Observed Release	550	0.00
2. Potential to Release:		
2a. Containment	10	10.00
2b. Net Precipitation	10	3.00
2c. Depth to Aquifer	5	3.00
2d. Travel Time	35	35.00
2e. Potential to Release [(lines 2a(2b + 2c + 2d)]	500	410.00
3. Likelihood of Release (higher of lines 1 and 2e)	550	410.00
Waste Characteristics:		
4. Toxicity/Mobility	(a)	100.00
5. Hazardous Waste Quantity	(a)	10.00
6. Waste Characteristics	100	6.00
Targets:		
7. Nearest Well	(b)	20.00
8. Population:		
8a. Level I Concentrations	(b)	0.00
8b. Level II Concentrations	(b)	0.00
8c. Potential Contamination	(b)	4,239.00
8d. Population (lines 8a + 8b + 8c)	(b)	4,239.00
9. Resources	5	5.00
10. Wellhead Protection Area	20	0.00
11. Targets (lines 7 + 8d + 9 + 10)	(b)	4,264.00
Ground Water Migration Score for an Aquifer:		
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000] ^c	100	100.00
Ground Water Migration Pathway Score:		
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated) ^c	100	100.00

^a Maximum value applies to waste characteristics category^b Maximum value not applicable^c Do not round to nearest integer

2.2 SOURCE CHARACTERIZATION

The source is contaminated soil located next to the dry cleaning machine, beneath the concrete floor of the building[SI].

2.2.1 SOURCE IDENTIFICATION

The source is PCE-contaminated soil, underlying the floor of a dry cleaning facility.

Name of source: PCE-Contaminated soil

Number of source: 1

Source Type: Contaminated Soil

Description and Location of Source (with reference to a map of the site):

PCE was detected in one on-site soil sample TTDS01 at a concentration significantly above background[SI (Table 2)].

The highest soil concentrations of PCE were detected in a sample collected near the dry cleaning machine[SI (Table 2; Fig. 2)].

2.2.2 HAZARDOUS SUBSTANCES ASSOCIATED WITH THE SOURCE

PCE is the principal contaminant associated with the subject source of contamination. PCE was detected at concentrations of 62 and 81 ug/kg in two soil samples collected from beneath the concrete floor of a building that houses the dry cleaning machine. PCE was also detected at concentrations of 1 and 0.98 ug/l in a pair of shallow ground water samples collected nearby. Bis(2-ethylhexyl)phthalate was also detected in the ground water sample, but was absent from the duplicate sample[SI [Tables 2 & 3; Figs. 2 & 3]]

- Background Concentrations [*if necessary*]:

Sample ID	Sample Type	Date	Hazardous Substance	Hazardous Substance Concentration	Sample Quantitation Limit	Reference
TTSS01	Sample	6/22/2004	Tetrachloroethylene	U ug/kg	1.20	

The background soil and ground water samples were TTDS01 and TTDGW-1, respectively[SI (Table 1)].

- Source Samples:

Draft: 6/1/99

Sample ID	Sample Type	Date	Hazardous Substance	Hazardous Substance Concentration	Sample Quantitation Limit	Reference
TTSS05	Sample	6/22/2004	Tetrachloroethylene	1.50 AJ ug/kg		SI (Table 2)
TTSS06	Sample	6/22/2004	Tetrachloroethylene	0.80 J ug/kg		SI (Table 2)
TTSS07	Sample	6/22/2004	Tetrachloroethylene	81.00 ug/kg		SI (Table 2)

2.2.3 HAZARDOUS SUBSTANCES AVAILABLE TO A PATHWAY

PCE is available to the Ground Water Migration Pathway. Although bis(2-ethylhexyl)phthalate was also detected in on-site ground water, a duplicate sample collected from the same well was free from that analyte[SI (Table 3)].

Containment Description	Containment Factor Value	Ref.
Gas release to air: -	-	
Particulate release to air: -	-	
Release to ground water: Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).	10	
Release via overland migration and/or flood: -	-	

Notes: NS Not Scored

2.2.4 HAZARDOUS WASTE QUANTITY

unknown

2.4.2.1.1. Hazardous Constituent Quantity

Description

Hazardous Substance	Constituent Quantity	(Units)	References
None			

Sum (pounds): 0.00

Hazardous Constituent Quantity Assigned Value: 0.00

2.4.2.1.2. Hazardous Wastestream Quantity

Description

Hazardous Wastestream	Wastestream Quantity	(Units)	References
None			

Sum (pounds): 0.00

Sum of Wastestream Quantity/5,000 (Table 2-5): 0.00

Hazardous Wastestream Quantity Assigned Value: 0.00

2.4.2.1.3. Volume

Description

Source Type	Description (# drums or dimensions)	Units	References
None			

Source Characterization

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Sum (yd³/gal): 0.00

Equation for Assigning Value (Table 2-5): V/2,500

Volume Assigned Value: 0.00

2.4.2.1.4. Area

Description

The area of contaminated soil could not be determined because only one significantly contaminated soil sample was demonstrated[SI (Table 2)].

Source Type	Units	References
None		

Sum (ft²): 0.00

Equation for Assigning Value (Table 2-5): A/34,000

Area Assigned Value: 0.00

2.4.2.1.5. Source Hazardous Waste Quantity Value

Highest assigned value assigned from Table 2-5: 0.00

Source Characterization

SUMMARY OF SOURCE DESCRIPTIONS

The site is a former residential dwelling that was converted into a dry cleaning facility in 1988. During 1997, in pursuit of the facility's inclusion into the Florida Drycleaning Solvent Cleanup Program, a consulting firm hired by the facility collected a soil sample from a depth of 1 foot in the vicinity of the drycleaning machine. An ensuing analysis of the sample documented a tetrachloroethylene (PCE) concentration of 241 ug/l. During 1, 1998, FDEP rejected the admittance of the facility to the clean-up program, as a result of failure to pay required taxes. During 7/98, FDEP evaluated the site and determined that a site investigation was necessary and performed a CERCLA preliminary assessment, which recommended further CERCLA investigation of the site[SI (p. 2-2)].

1

Source No.	Source Hazardous Waste Quantity Value	Source Hazardous Constituent Quantity Complete? (Y/N)	Containment Factor Value by Pathway				
			Ground Water (GW) (Table 3-2)	Surface Water (SW)		Air	
				Overland/flood (Table 4-2)	GW to SW (Table 3-2)	Gas (Table 6-3)	Particulate (Table 6-9)

Description of Other Possible Sources